CALIFORNIA INSTITUTE OF TECHNOLOGY PASADENA

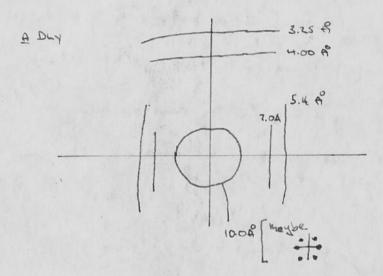
DIVISION OF BIOLOGY
KERCKHOFF LABORATORIES OF BIOLOGY

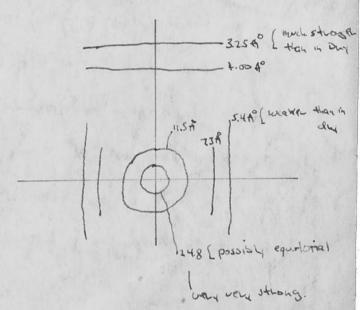
March 28, 1954

Dear Francis

I enclose a copy of a note to "Nature" which I have asked Max to send to gale. It is straightforward uncl not exciting but I feel its best that we publish the best data instead of someone else. We have not presented our data from the fibre diagrams since the pictures temain someone else. We have not presented our data from the fibre diagrams since the pictures temain where else, we have not presented our data from the fibre diagrams since the pictures temain where else, we have so we despite effort and we are still unable to resolve the inher tings heatly. What we have so

far looks like the below





In some ways the pictures are tempolarily similar to DNA. Though obviously different is several points.

I would defindely guess toward & a similar structure if the base pairs existed in the plant vivuses and despite this different still do so.

Deventheless we have considered single strang helico of various types. The pretiest of these found by Alex) has a segar phosphate core, a pitch of 4.3 f. 2.15 tesidies per turn which is held together by hydrogen bonds from position 2 on the sugar to one of the phosphate oxygens. It is neat and compact and I think gute wrong because of its failure to account for the wet pitture. I suspect that the area I think gute wrong because of its failure to account for the wet pitture. I suspect that the

solid rider how to build one [we are how even imagining branches!]. The whole thing is probling and paradoxical (for conce DNA be wrong) and is slowly driving me to dispair and to look nucleic ecids.

Bether pictures will obviously help, a clear ridea even more lessie Orgel is also interested in solving mess and so occassionally is Dick Feynmenn but so fair we are impotent.

I am now in a mood to write up the fishe diagrams and to present paradox will probably do so this coming week to show you in oak Ridge.

Conserving Oak Ridge: (1) I have no worthwhile ideas about recombination - Will protectly give a talk underlining difficulties in at present extrapolating from our structure. - (UTLy funny turnover data-possibilities of claim breakage, etc.

An not some of where I shall stay in Washington - Passibly Cosmo Club. if they are not filled with fraction, members. Will probably abrive on saturday or early sunday and leave on tursday. An needing the nice either washington on afterwards in Philadelphia or New York. I shall possibly that to besen on Saturday for a days verestion from service. It is thus best if we could talk in quiet between Saturday for a days verestion from service. It is thus best if we could talk in quiet between Oak Ridge and wratuston. Some finence from whomas plan to go into the mountains near Oak Ridge for a day on so after the neetings. Why don't we som them are afterwards fly from thospile for a day on so after the neetings. Why don't we som them are afterwards fly from thospile to washington [Saturday ?].

I shall leave have on thousandy April 15th and stey 2 days at home before going to Uniona or Saturday free driving from there to oak Riage on Surday.

An quite arxiois to talk with you. Alex is not interested in beatly understanding priture and lessie is not a chystallographer. It is obviously a much touster progress than DIVA.

withe soon

Lin

P.S. Constitution on doughtern come? - Am soing that sebestic Trumpiston Chick is hot yet possible - Le it Appende Chick?